

## ABSTRACT OF THE DISCLOSURE

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Respective monoclonal antibodies are fixed into respective wells of a microplate one by one, and bonded with labeled analogs of PTH amino acid derivatives. A solution containing PTH amino acid derivatives obtained by Edman degradation is dripped on to the microplate for causing competitive reaction to the monoclonal antibodies with the analogs, and thereafter non-bonded PTH amino acid derivatives and liberated analogs are washed out. Then enzyme-labeled antibodies against the analogs are added and the quantity of bonded enzyme-labeled antibodies is measured thereby determining the types and quantities of the PTH amino acid derivatives. Constitutive amino acid can be detected in high sensitivity.

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